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# USER MANUAL

## *#24 Olympus Type Microscope Mount Set*

**14-0010**
**Version 2.00**
**2013**

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Version 2.00

2013

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## Warranty

LIMITED PRODUCT WARRANTY: All Products manufactured by VINCENT ASSOCIATES® (MANUFACTURER) are warranted to meet published specifications and to be free of defects in materials and workmanship as defined in the specifications for 365 days - one year - (WARRANTY PERIOD) from the date of original shipment of the product. DSS series shutters are additionally warranted to achieve two million cycles within the WARRANTY PERIOD (as defined in the CYCLE WARRANTY CRITERION). MANUFACTURER will, at its own option within the WARRANTY PERIOD, repair or replace without charge any listed item discovered to be defective excepting transportation charges. Burned out or otherwise damaged actuator coils are not covered under this warranty. Any defective product returned to the MANUFACTURER must follow the RETURN MATERIAL AUTHORIZATION PROCEDURE as defined below. This warranty does not extend to cover damage resulting from alteration, misuse, negligence, abuse, normal wear and tear, or accident. The MANUFACTURER will consider the return of unused equipment if returned within 30 days from the original date of shipment, subject to a 20% restocking charge. This offer does not apply to used or damaged equipment. This warranty extends only to the original purchase and is not available to any third party, including any purchaser assemblies or other Products of which the goods may become component equipment.

CYCLE WARRANTY CRITERION: One "cycle" is considered one open and one closure of the shutter. DSS Shutter must be operated with the ED12DSS driver or equivalent H-Bridge type shutter driver circuit at +10.7VDC across the actuator coil for the specified duration. DSS Shutter must be operated within the defined environmental, electrical and mechanical specifications as listed on the device's data sheet. After one year (WARRANTY PERIOD), the cycle warranty is null and void. If returned, the device must be accompanied by a written statement indicating the approximate number of cycles contained on the device, include all parameters to which the shutter was operated and follow the RETURN MATERIAL AUTHORIZATION PROCEDURE as defined below.

RETURN MATERIAL AUTHORIZATION PROCEDURE: MANUFACTURER will only accept returned Products from customers that have obtained an RMA (Return Material Authorization) number from the MANUFACTURER. The customer must also include an itemized statement of defect(s). The Product will then be evaluated per the MANUFACTURER'S standard repair guidelines. Any Product which has been returned to the MANUFACTURER but which is found to meet the applicable specifications and not defective in materials and workmanship shall be subject to the MANUFACTURER's standard evaluation charge. The MANUFACTURER assumes no liability for customer returned material.

LIMIT OF LIABILITY: The buyer's exclusive remedy and the limit of MANUFACTURER'S liability for any loss whatsoever shall not exceed the purchase price paid by the buyer for the goods to which a claim is made. MANUFACTURER does not give any implied warranties of merchantability, fitness for a particular purpose, or of any other nature in connection with the sale of any Products.


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## Introduction

The #24 mount set is the larger diameter counterpart to the #23 Olympus mount set. The #24 mount set adapts specific shutter housing types to an IX or BX type Olympus microscope. No modification to the microscope should be necessary. A filter area is provided to allow the user to install an optical filter between the light source and the shutter housing. The housed versions of the LS, VS, and XRS series shutters, as well as the CS25 and CS35, can be configured with this mount set type. A clearance cutoff (1.38in/35.1mm from aperture center) is provided with the VS series only.

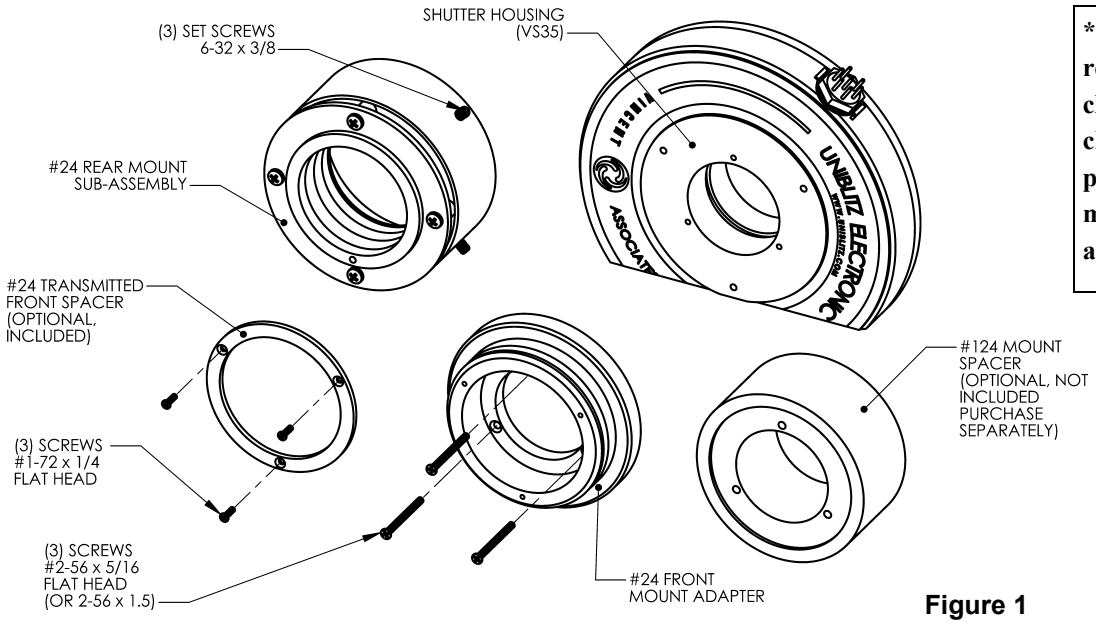
## Assembly Procedure

### Mount Assembly

#### Unpack the Mount Set

As you remove the packing material from the box, check for small items that may be attached to the packing material. Make sure the following parts were included in the box:
(parts 5 and 6 are only available by special request). **(See parts list table and Figure 1)**

| #24 Mount Set Parts List | | | |
|---|---|---|---|
| **ITEM** | **PART NAME** | **QUANTITY** | **PART NUMBER** |
| 1 | LS/VS14/VS25/VS35 SHUTTER | 1 | N/A |
| 2 | #24 REAR MOUNT SUB-ASSEMBLY | 1 | 9012-453 |
| 3 | #24 FRONT MOUNT ADAPTER | 1 | 9003-238 |
| 4 | SCREW 2-56x5/16 FLAT HEAD | 3 | 20-0104 |
| *5 | #124 MOUNT SPACER (OPTIONAL, NOT INCLUDED) | 1 | 9003-282 |
| *6 | SCREW 2-56x1 1/2 FLAT HEAD (OPTIONAL, NOT INCLUDED) | 3 | 20-0220 |
| 7 | #24 TRANSMITTED FRONT SPACER (OPTIONAL, INCLUDED) | 1 | 9003-0284 |
| 8 | SCREW 1-72x¼ F.H. (OPTIONAL, INCLUDED) | 3 | 20-0100 |




***Available by special request only. Not included, must be purchased separately when purchasing #124 mount. Screws (item 6) are included.**

**Figure 1**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**INSTALLATION STEPS:**

**Step One:**

Using (3) flat head screws attach #24 front mount to the front of the shutter housing. (See Figure 2)

***If the application requires additional spacing between the shutter housing and the #24 front mount , see page 8.**

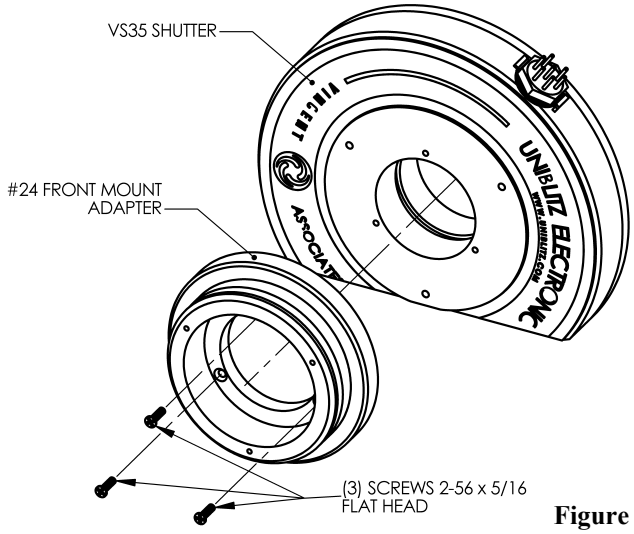


**Figure 2**

**Step Two:**

Screw the rear mount sub-assembly to the back of the shutter housing and tighten securely.

(See Figure 3)

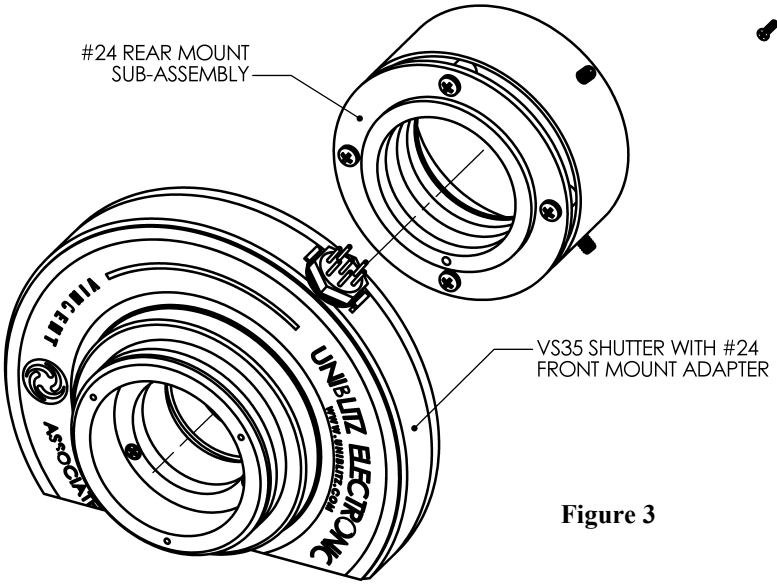


**Figure 3**

**Step Three:**

#24 mount final installation as shown.

(See Figure 4)

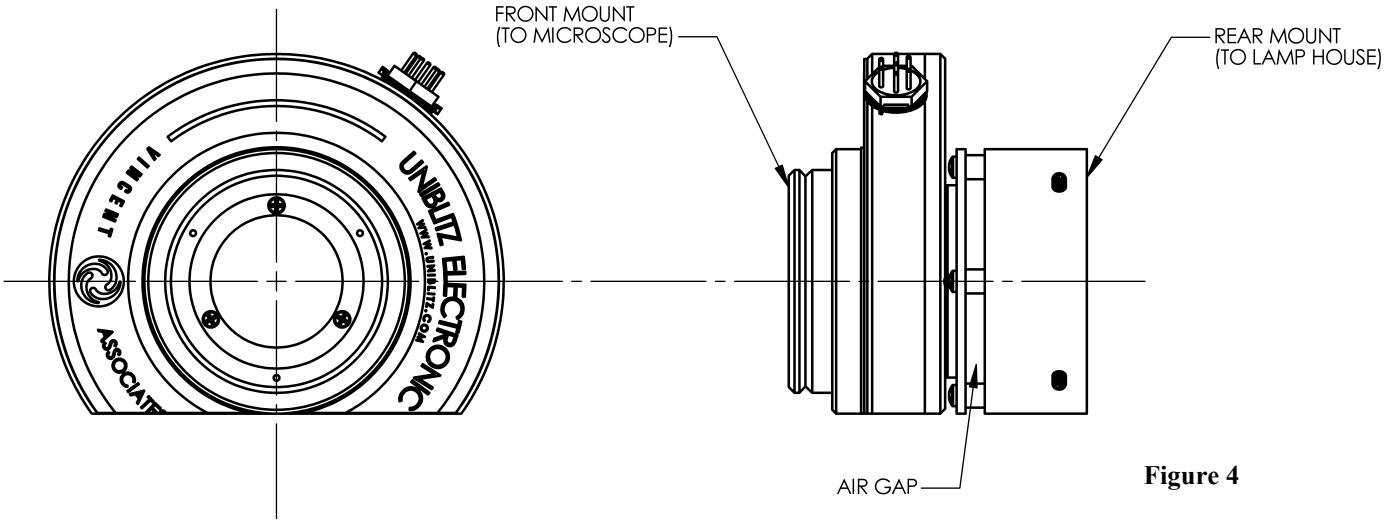


**Figure 4**



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**INSTALLATION STEPS:** (Transmitted application)

**Step One:**

Using (3) 2-56 flat head screws, attach #24 front mount to the front of the shutter housing. (See Figure 5)

***If the application requires additional spacing between the shutter housing and the #24 front mount, see page 8.**

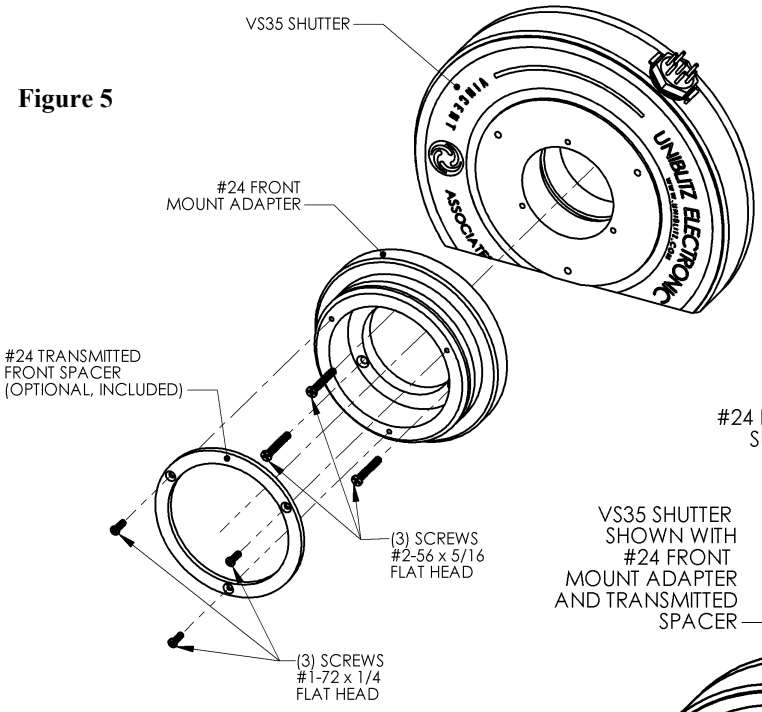
VS35 SHUTTER
#24 FRONT MOUNT ADAPTER
#24 TRANSMITTED FRONT SPACER (OPTIONAL, INCLUDED)
(3) SCREWS #2-56 x 5/16 FLAT HEAD
(3) SCREWS #1-72 x 1/4 FLAT HEAD

**Figure 5**

**Step Two:**

Using (3) 1-72 flat head screws, attach spacer to the outside surface of #24 front mount. (See Figure 5)

**Step Three:**

Screw the rear mount sub-assembly to the back of the shutter housing and tighten securely. (See Figure 6)

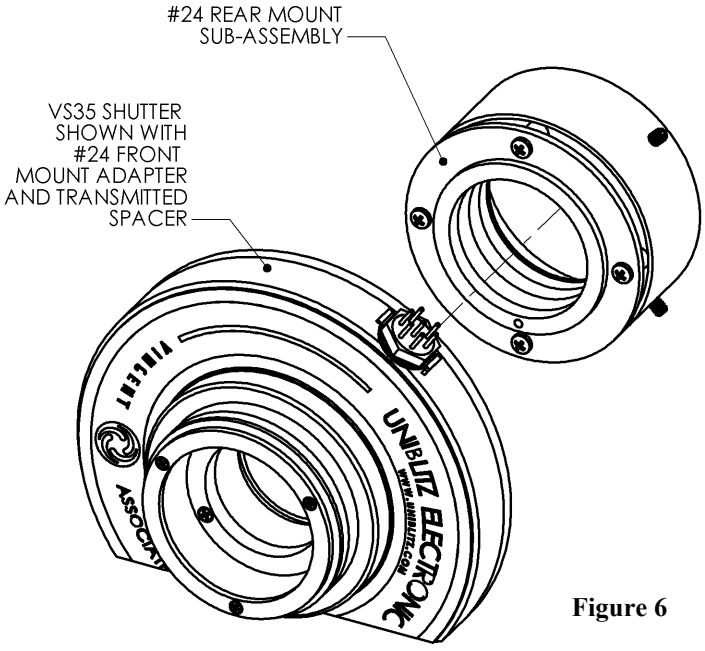


**Figure 6**

**Step Four:**

#24 mount final installation as shown. (See Figure 7)

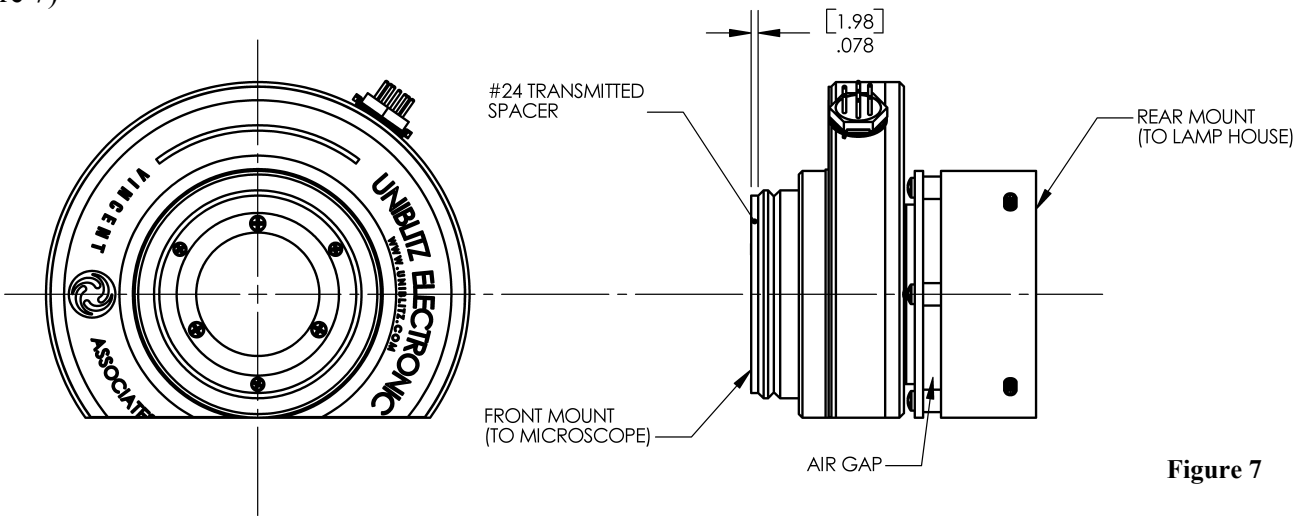


**Figure 7**



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**INSTALLATION STEPS:** (Special application)

**Step One:**

Contact Vincent Associates to request and purchase a #124 mount spacer and 2-56X1 1/2 flat head screws (screws included with purchase of #124 spacer).

Using (3) flat head screws (1.5" length), attach #124 front mount and spacer to the front of the shutter housing. (See Figure 8)

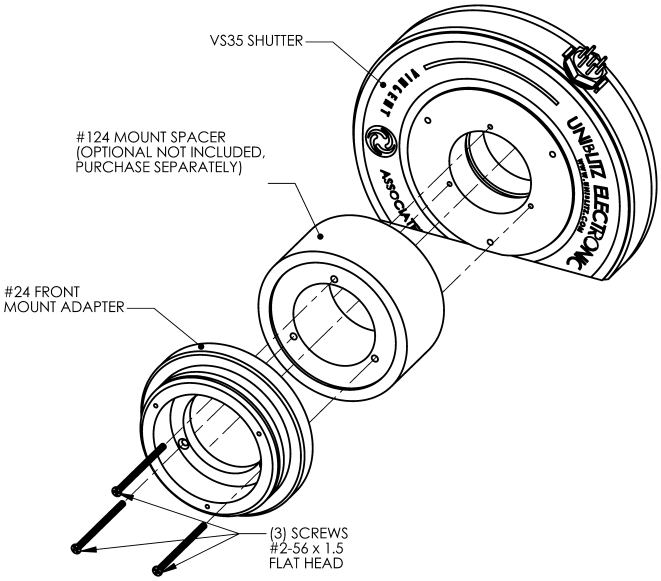


**Figure 8**

**Step Two:**

Screw the rear mount sub-assembly to the back of the shutter housing and tighten securely. (See Figure 9)

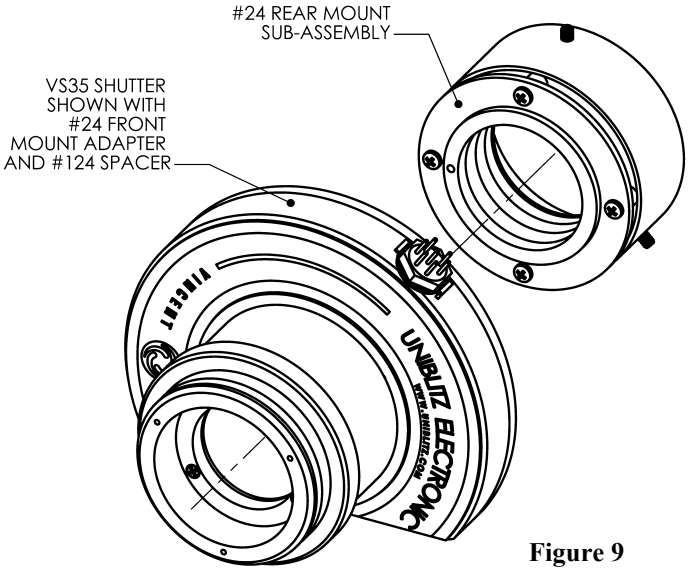


**Figure 9**

**Step Three:**

#24 mount final installation as shown.

(See Figure 10)

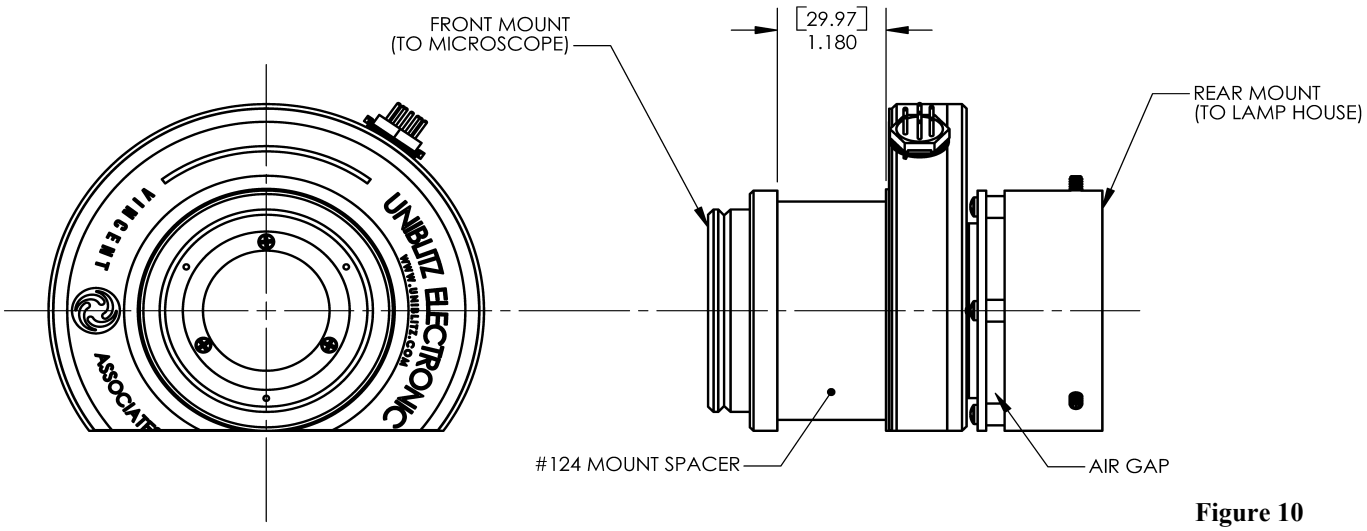


**Figure 10**



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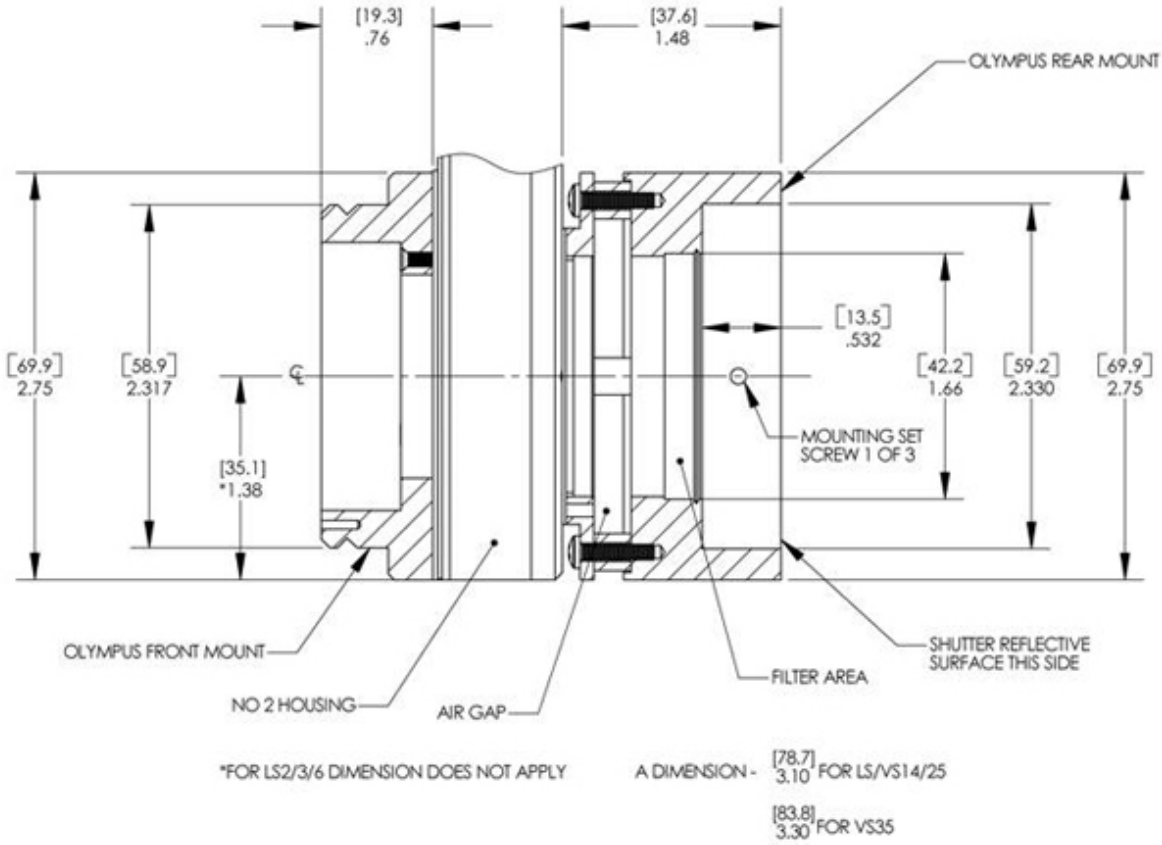
# Specifications




**ALL DIMENSIONS MAX**

**[mm]**

**INCH**

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Drawings shown for illustrative purposed only.

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